Review of Compression Symposium II

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Review of Agenda

- The first half was focused on the JPEG 2000 status and the development of the Profile.
 - Development of standard profile
- Several Commercial vendors presented on JPEG 2000 development
 - Mapping Science (GeoJP2)
 - Aware (Software, SDK)
 - RSI/Kodak (IAS)
 - Paragon (ELT 5500, 3500, 1500 End of 2003)
 - Sensor Systems (Remote View 2.4)
 - Leica Geosystems (ERDAS IMAGINE Summer of 03)



Review of Agenda

- Programs JPEG 2000 developments
 - NIL/IPL (Version 4.0)
 - IEC (being developed)
 - DCGS (migration planning)
- Two advanced technologies were presented
 - Complex SAR compression
 - JPEG 2000 Part 9: JPIP
 - This is now a standard



Work Accomplished since CS2

- ISO JPEG Committee Standards
 - Current Work Items
 - JPEG 2000 Part 9: JPIP moved from CD to ISO Standard
 - JPEG 2000 Part 8: JPSEC Security moved from WD to CD
 - Part 10 Floating point and 3-D compression still at WD
 - Part 11 JPEG wireless Still at WD
 - Part 12 Common Format (MPEG-4, MJ2K) moved from CD to ISO standard
 - New Standards Started
 - Part 13 JPEG 2000 Standard Encoder
 - Concerned about IP with encoder versus decoder
 - New work items
 - Three new proposed work items



Work Accomplished since CS2

JPEG 2000 Profile Development

- -2003
 - June SC24 meeting: Released Version 1.8 for comments (pre-vote)
 - Edited to version 1.9 with comments from SC 24 and the local experts
 - 120 comments resolved
 - » 118 from the experts, 2 from SC 24
 - Most minor typos
 - JITC
 - MITRE
 - Kodak
 - Aerospace
 - Send for official vote in December
- -2004
 - Jan: Ballot-ready profile released by JITC
 - Feb: Approved by the NATO NSIF/4545 CST
 - June: Approved by SC 24 as a registered profile



JPEG 2000 Standard and Profiles

JPEG 2000

JPEG 2000 Commercial Profile 1 NITFS Profile

NPJE

JPEG 2000 Commercial Profile 0



Work Accomplished since CS2

- NITFS 2.1 JPEG 2000 Compliance Testing
 - Have developed compliance testing procedures and test images
 - Currently testing commercial products
- Most producers are moving towards JPEG 2000 encoding
 - National
 - Tactical
 - Commercial
- Commercial system support
 - More commercial systems support JPEG 2000



Commercial Software, IP, and Silicon

June 2004: Compression Symposium 3

JPEG 2000 Software











JPEG 2000 Firmware

















JPEG 2000 Silicon























TEXAS INSTRUMENTS OFER





SUITE





DelphiSource.com

Intelli Innovations inc.











Polylmage Features

stardust software





